

WO 2004/046579

PCT/EP2003/012841

CLAIMS:

1. Disc brake, particularly for a commercial vehicle, having a caliper (2) reaching around a brake disc (1), which caliper (2), relative to the brake disc (1), is axially displaceably fastened to a brake anchor plate (6) and on whose one side, an application device (11) is arranged, having a displaceable element, particularly a traverse beam (10), which has at least one threaded bore (16) into which an adjusting screw (12) is screwed which carries a pressure piece (13), by means of which a brake shoe (9) can be pressed against the brake disc (1), having an adjusting device which is in an operative connection with the adjusting screw (12), by means of which adjusting device a wear-caused change of a release play between the brake shoe (9) and the brake disc (1) can essentially be compensated, and having a protection element which has a rotation-inhibiting effect on the adjusting screw (12) up to a certain torque, characterized in that the protection element consists of a spring ring (14) which is disposed in a ring groove (15) of the threaded bore (16) or the adjusting screw (12) and is elastically supported on the opposite thread.

2. Disc brake according to Claim 1,  
characterized in that the spring ring consists of metal.

3. Disc brake according to Claim 2,  
characterized in that the spring ring (14) is constructed as a  
steel spring.

4. Disc brake according to one of Claims 1 to 3,  
characterized in that the spring ring (14) has an undulated  
contour.

5. Disc brake according to one of Claims 1 to 4,  
characterized in that the spring ring (14) is shaped of a strip-  
shaped spring material, preferably spring plate.

6. Disc brake according to Claim 1,  
characterized in that the ring groove (15) is constructed to have  
no slope.

7. Disc brake according to Claim 1,  
characterized in that the ring groove (15) corresponds in its  
width approximately to the width of the spring ring (14).

8. Disc brake according to one of Claims 1 to 7,

characterized in that, with respect to its geometry, dimensioning and material selection, the spring ring (14) is defined as a function of the clamping force to be applied to the adjusting screw (12).

9. Disc brake according to Claim 1, wherein two parallel adjusting screws (12) are provided which extend at a distance to one another, characterized in that a spring ring (14) is assigned to each adjusting screw (12).

10. Disc brake according to Claim 9, characterized in that the spring rings (14) are identical with respect to their shape, material and dimensioning.